

# **Prepared For The Public Service Commission - State of South Carolina**

The most favored solution for most everyone affected would be to have the Transfer Line project canceled. That said, here is the second best solution.

The purpose of this presentation is to demonstrate the second best solution. The new 230-kilovolt (kv) Transfer Line between a new substation in Campobello, SC and the Asheville, NC power plant can be built with reduced damage to the environment and with less of a negative effect to the South Carolina economy in the foothill area.

An overall picture of every proposed Transfer Lines is shown on picture #1. All blue lines and yellow lines are proposed by Duke Energy as alternatives for a single route to be selected and to be proposed in October 2015.

Widening an existing Highway for the purpose to accommodate increased traffic is less damaging to the

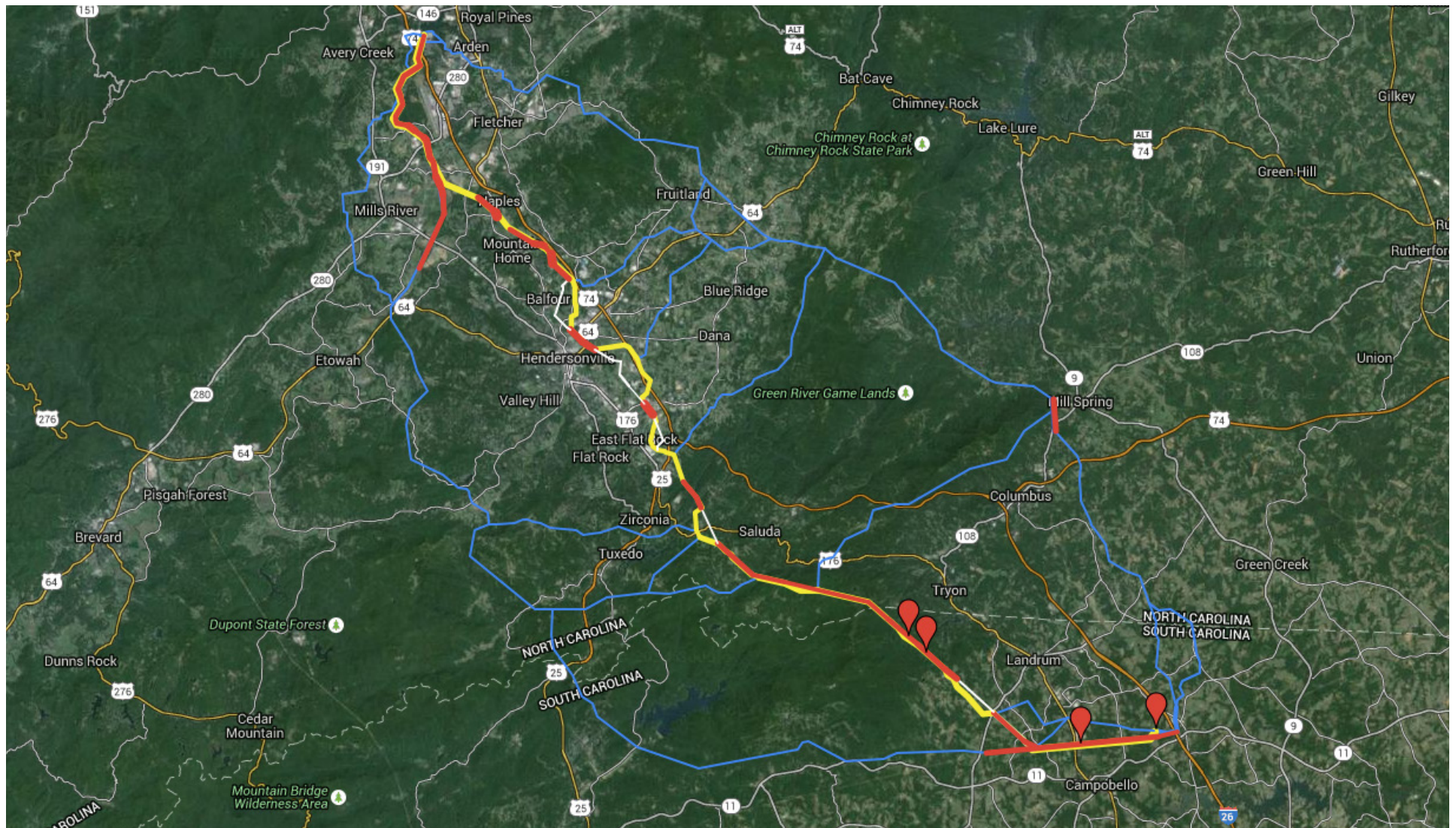
environment than building a new route. The same is true for Electric Transfer Lines.

None of the blue lines makes use of an existing Transfer Line corridor. In contrast the yellow line connects with existing Transfer Line corridors for most of the route from Campobello to Asheville.

The total length of the route (yellow line) proposed by Duke Energy is 40.77 miles. It connects to existing Transfer Line corridors for 26.71 miles.

Picture #1 on page 2 shows the location of those existing Transfer Line corridors as a red line. The thin white line shows existing corridors not being used for the new Transfer line.

## 44 Proposed Routes in SC and NC

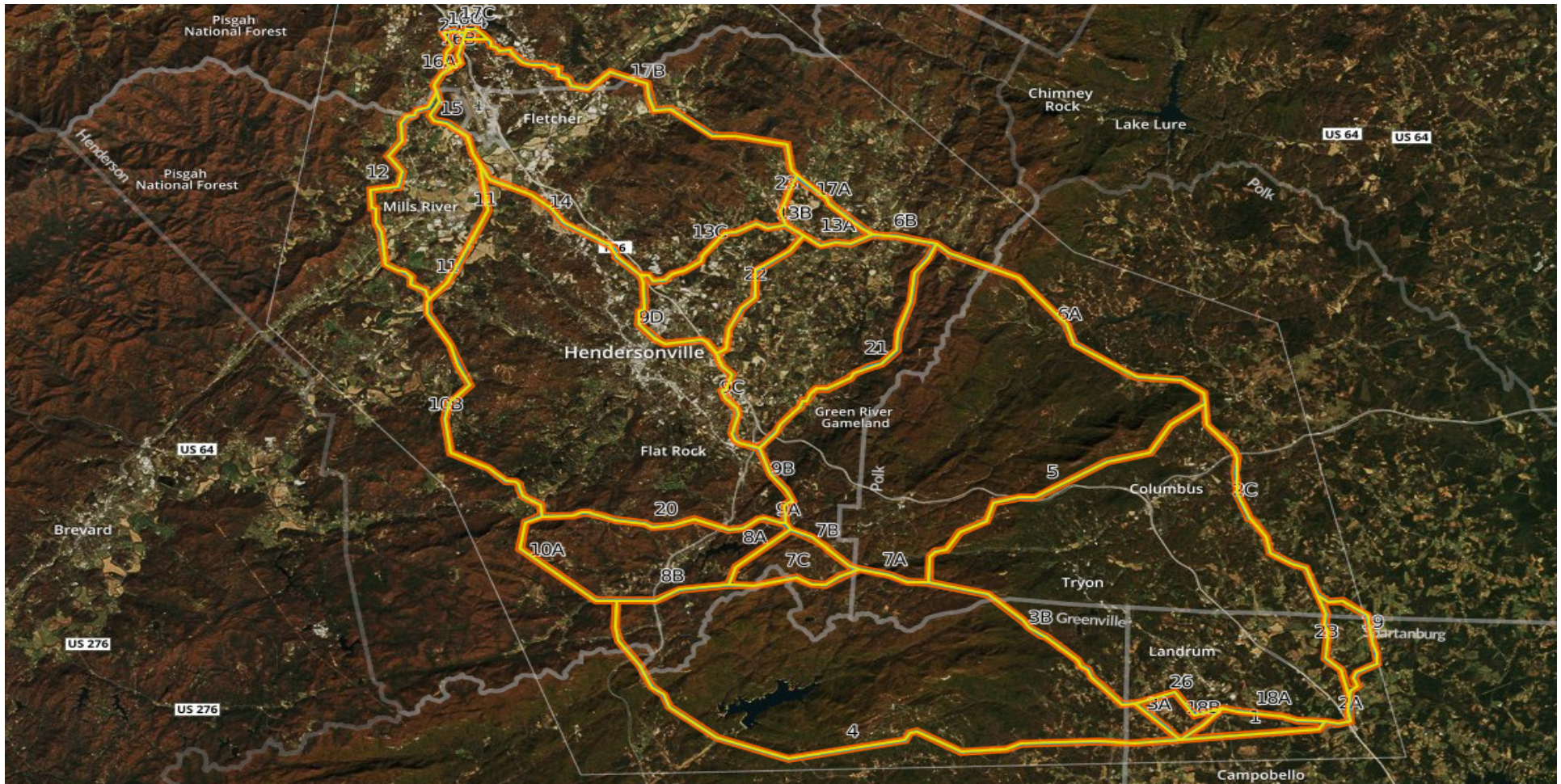


- Duke Energy's proposed Transfer Line possibilities
- Duke Energy's proposed Transfer Line, using in part existing Transfer Line corridors
- Duke Energy's existing Transfer Line corridor adjacent to proposed new Transfer Line
- Duke Energy's existing Transfer Line corridor **not** adjacent to proposed new Transfer Line



## Distance of Proposed Lines vs. Existing Corridor

| Distance in Miles |                            |                   |
|-------------------|----------------------------|-------------------|
| Section           | Distance of Proposed Lines | Existing Corridor |
| 1                 | 4.16                       | 4.16              |
| 3A                | 1.81                       | 1.81              |
| 3B                | 7.39                       | 5.55              |
| 7A                | 2.01                       | 2.01              |
| 7B                | 2.39                       | 1.56              |
| 9A                | 0.28                       | 0                 |
| 9B                | 2.85                       | 1.1               |
| 9C                | 4.03                       | 0.43              |
| 9D                | 4.41                       | 1.03              |
| 14                | 5.99                       | 3.61              |
| 15                | 3.13                       | 3.13              |
| 16A               | 0.96                       | 0.96              |
| 16B               | 1.16                       | 1.16              |
| 16C               | 0.2                        | 0.2               |
| <b>TOTAL</b>      | <b>40.77</b>               | <b>26.71</b>      |

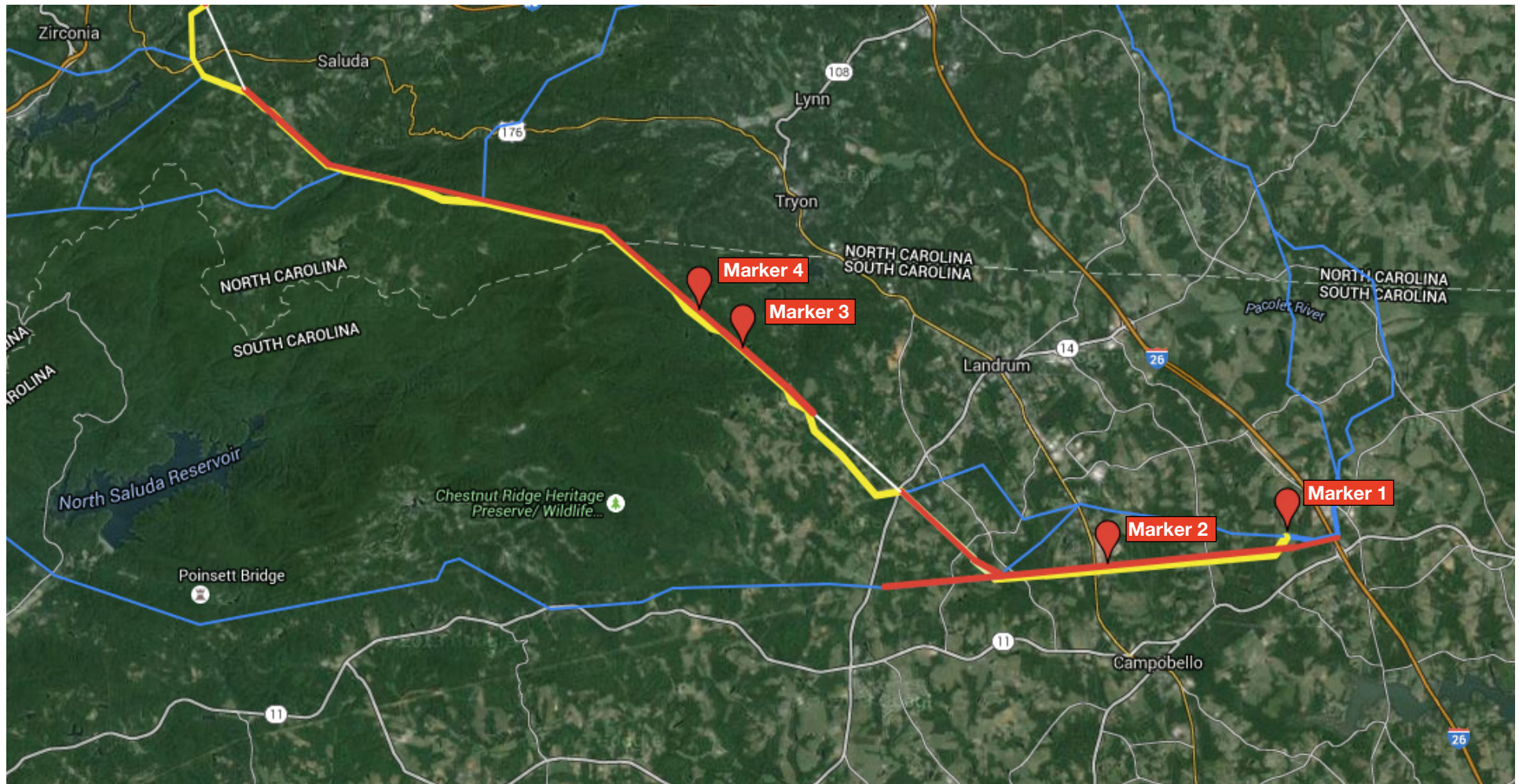




# Proposed Routes in South Carolina

West of I-26 Sections: 1, 4, 3A, 3B, 18A, 18B, 26

East of I-26 Sections: 2A, 2B, 19



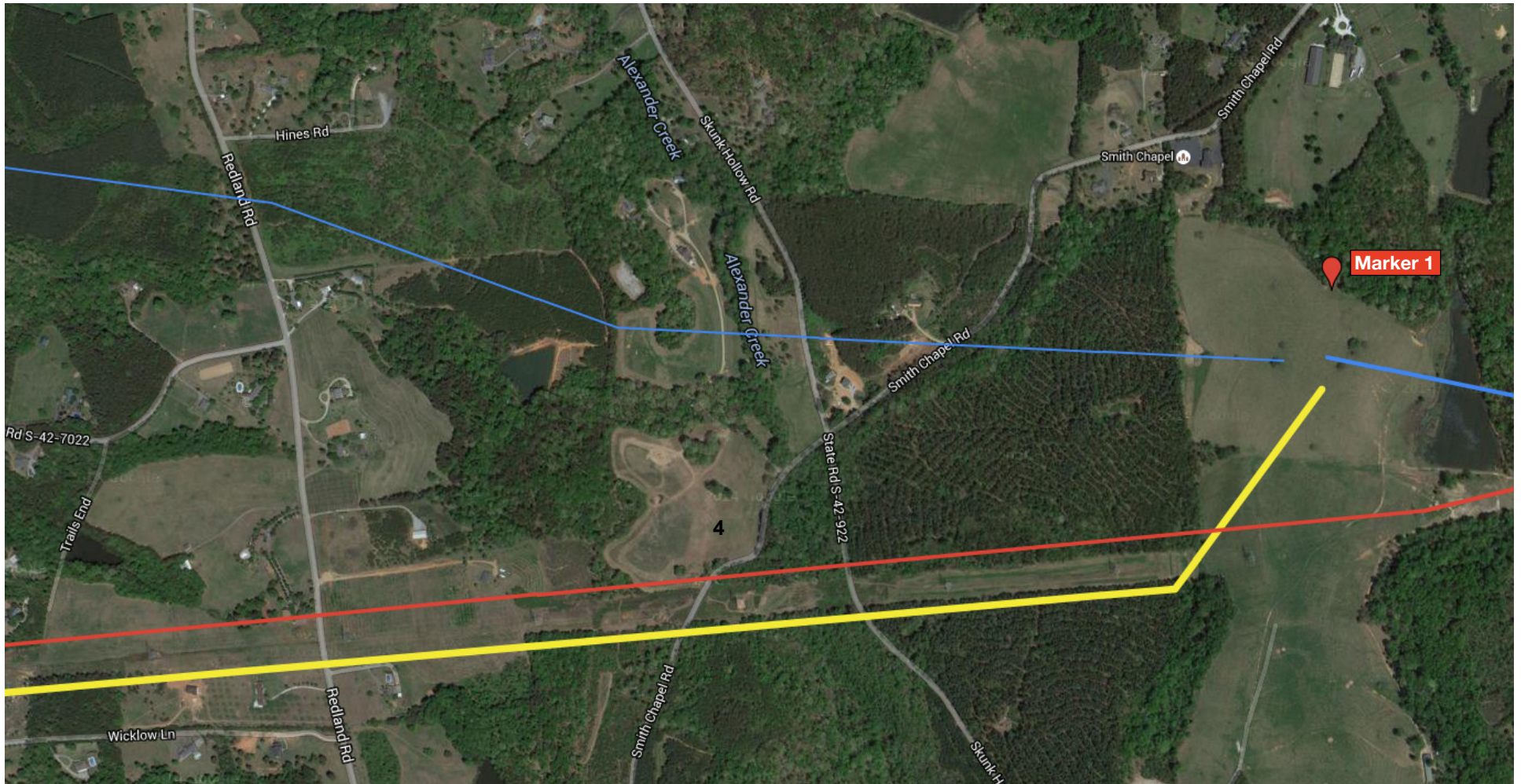
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- 📍 **Marker 1:** Campobello, SC Substation
- 📍 **Marker 2:** Landrum High School
- 📍 **Marker 3:** Typical Setting
- 📍 **Marker 4:** Typical Deviation



# Marker #1

## Site of Campobello Substation





- Duke Energy's proposed Transfer Line possibilities
  - Duke Energy's proposed Transfer Line, using in part existing Transfer Line corridors
  - Duke Energy's existing Transfer Line corridor adjacent to proposed new Transfer Line
- Note: Distance Campobello-Asheville of the blue most westerly route 49.53 miles  
Distance Campobello-Asheville of the blue most easterly route 41.04 miles*



## Marker #2 Landrum High School



-  Duke Energy's proposed Transfer Line, adjacent to existing Transfer Line corridor
-  Duke Energy's existing Transfer Line corridor adjacent to proposed new Transfer Line



## Marker #3

### Setting of Existing Corridor Adjacent to Duke Energy's Proposed Transfer Line



- Duke Energy's proposed Transfer Line, adjacent to existing Transfer Line corridor
- Duke Energy's existing Transfer Line corridor adjacent to proposed new Transfer Line



## Marker #4

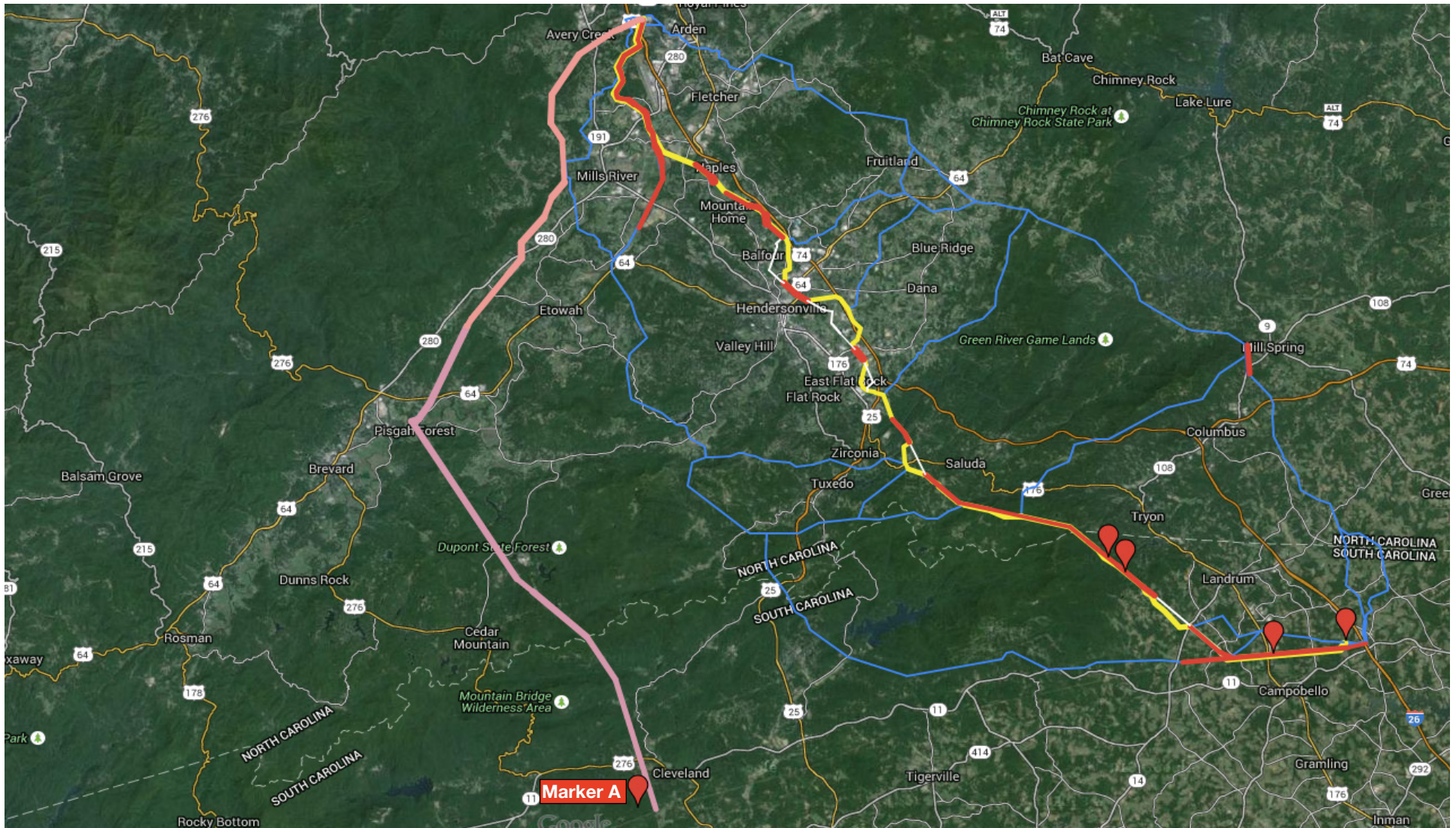
### One of a Few Slight Deviations from Existing Transfer Line Corridor



- Duke Energy's proposed Transfer Line departure from existing Transfer Line corridor
- Duke Energy's existing Transfer Line corridor



## Pink Transfer Line Corridor (Not Proposed by Duke Energy)



An existing Transfer Line corridor, in the vicinity of Cleveland, SC, crosses an existing 525-kilovolt (kv) Line corridor originating at the Oconee Nuclear Power Plant.

A new substation at Marker A could connect the existing 525-kv Transfer Line with a new 235-kv Transfer Line, eliminating the need for the substation in Campobello, SC. The total length of this route (pink line) is 35.12 miles.



## Marker A

**From Marker A, an Uninterrupted Existing Corridor Ends at the Asheville Plant**

